

Title (en)  
Control method

Title (de)  
Steuerungsverfahren

Title (fr)  
Méthode de commande

Publication  
**EP 0905719 A3 20000419 (EN)**

Application  
**EP 98307375 A 19980911**

Priority  
GB 9720003 A 19970920

Abstract (en)  
[origin: EP0905719A2] A method of controlling the operation of an electromagnetic actuator is disclosed, the method comprising the steps of energizing the actuator using a low voltage source to generate a low magnitude actuator force, and applying a second, higher voltage to the actuator to generate a higher magnitude actuator force. <IMAGE>

IPC 1-7  
**H01F 7/18**

IPC 8 full level  
**F02M 51/00** (2006.01); **F02D 41/20** (2006.01); **F02M 47/02** (2006.01); **F02M 51/06** (2006.01); **F02M 57/02** (2006.01); **F02M 59/36** (2006.01); **F16K 31/06** (2006.01); **G05D 3/10** (2006.01); **H01F 7/18** (2006.01)

CPC (source: EP US)  
**F02D 41/20** (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 57/02** (2013.01 - EP US); **F02M 59/366** (2013.01 - EP US); **H01F 7/18** (2013.01 - EP US)

Citation (search report)

- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 498 (M - 1325) 15 October 1992 (1992-10-15)
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 427 (M - 1174) 30 October 1991 (1991-10-30)

Cited by  
EP1098087A1; WO2004074674A1; EP1503073A1; EP2854144A1; GB2330947B; EP1310668A3; EP1055814A3; EP1065368A3; US6732948B1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0905719 A2 19990331**; **EP 0905719 A3 20000419**; **EP 0905719 B1 20030702**; DE 69815975 D1 20030807; DE 69815975 T2 20040513; GB 9720003 D0 19971119; JP H11153246 A 19990608; US 6457457 B1 20021001

DOCDB simple family (application)  
**EP 98307375 A 19980911**; DE 69815975 T 19980911; GB 9720003 A 19970920; JP 26669898 A 19980921; US 15438698 A 19980916